FOREWORD

Special Section on Quality of Diversifying Communication Networks and Services

With the progress of seamless wired/wireless network technologies and advancement of communication terminals such as smartphones, diversified communication services have been provided through communication networks. In addition to infrastructure improvements, e.g. broadband access networks, network virtualization technologies, cloud technologies, and multimedia compression technologies, the stable provision of diversified services requires advanced operation, management, and assessment techniques. To meet such quality requirements and provide secure and reliable network services, it is important to build technologies for measuring, assessing, managing, and visualizing the communication quality, and network operation technologies.

This Special Section, thus, aims to further promote research and development on the quality of diversifying communication networks and services. We had received 23 submissions. After careful consideration, intensive review, and discussion by the editorial committee, 12 papers have been selected for publication. Two invited papers are also solicited to provide the state-of-the-art perspectives for quality of diversifying communication networks and services.

Finally, as the guest editor-in-chief, I would like to express my sincere appreciation to all the authors for their contribution and to all the reviewers and all the members of the editorial committee for their great efforts to make this Special Section a successful one.

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Hideaki Yoshino, Guest Editor-in-Chief

Hideaki Yoshino (*Fellow*)   received the B.Sc., M.Sc. and D.Sc. degrees in information science from the Tokyo Institute of Technology, Tokyo, Japan, in 1983, 1985 and 2010, respectively. He joined NTT Laboratories in 1985 and has been engaged in communication traffic and service quality research for 27 years. As a visiting scholar, he stayed at the University of Stuttgart, Germany, during 1990–1991. He is currently a professor at the Department of Electrical and Electronics Engineering at Nippon Institute of Technology, Japan. He has been the Chair of the IEICE Technical Committee on Communication Quality since 2011. He is currently the Chair of the Technical Committee on Communications Quality and Reliability of the IEEE Communications Society (ComSoc). He has been involved in many international conferences related to communication network and quality, e.g., the IEEE Communications QoS, Reliability, and Modeling (CQRM) symposium co-chair of ICC and GLOBECOM. His areas of interest include traffic control, QoE assessment, and big data analytics for future communications networks and services. He is a member of IEEE (and ComSoc), IEICE Japan, and the Operations Research Society of Japan.